

BRUHATH BENGALORE MAHANAGARA PALIKE

ne of work:Improvements to roads and drains at Ambabhavani Layout (Part-1)In Ward 3

Description of Items	No	Length (m)	Width (m)	Depth (m)	Estimated Cost:60.00 Lkajs			
					Quantity	Unit	Rate	Amount

KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)

Ambabhavani Layout

For RCC Drain

9th cross

Cross road from 8th-12th cross

For Asphalt road

7th cross

8th cross

Basic Rate 130.00

Loading and Unloading 57.00

Lead For Earth 5km 12.80

Area Weightage 6% 7.80

Data Rate 207.60

986.40 Cum 207.60 204776.64

KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)

Ambabhavani Layout

For RCC Drain

2nd Main road

2 108.00 1.10 0.15 35.64

2 84.00 1.10 0.15 27.72

Basic Rate 5115.00 63.36 Cum 5509.33 349070.94

Deduct Cement cost as per SR -18-19 Page No.V SI.No.123 -1079.39

Add Cement cost as per Issue rate 1161.86

Sub Total 5197.48

Area Weightage 6% 311.85

Grand Total 5509.33

Note:- (220*490.63/100)=1079.39

Note:- (220*264.06/50)=1161.86

Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)

Ambabhavani Layout

For Bottom Raft

For RCC Drain

2nd Main road

2 108.00 0.90 0.15 29.16

No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
	For Wall	2	84.00	0.90	0.15	22.68			
	For RCC Drain								
	2nd Main road	4	108.00	0.15	0.75	48.60			
		4	84.00	0.15	0.75	37.80			
						138.24	Cum	7189.42	993865.17
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- $(300 \times 490.63 / 100) = 1471.89$						
	Add Cement cost as per Issue rate	1584.36	Note:- $(300 \times 264.06 / 50) = 1584.36$						
	Sub Total	6782.47							
	Area Weightage 6%	406.95							
	Grand Total	7189.42							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (I No-28.8.2, P No-229 PWD SR 2018-19)								
	Consider 65kg/Cum for RCC drain	1	138.24	65.00		9054.72			
						9.05	Tonne	65046.90	588981.47
	Issued rate	61365.00							
	Area Weightage 6%	3681.90							
	Data Rate	65046.90							
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of Engineer in charges. (Data Rate)								
	Ambabhavani Layout								
	For RCC Drain								
	2nd Main road	2	108.00	0.90		194.40			
		2	84.00	0.90		151.20			
						345.60	Sqm	2337.00	807667.20
	Data Rate	2337.00							
6	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No-147 Item no - 19.64 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00		1140.00			
	8th cross	1	186.00	6.00		1116.00			
						2256.00	Sqm	6.36	14348.16
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	6.36							

No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
7	KSRRB M400-17. Providing, laying, spreading and compacting cushioned stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No-158 Item no - 20.18 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00	0.20	228.00			
	8th cross	1	186.00	6.00	0.20	223.20			
						451.20	Cum	2001.28	902977.54
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Data Rate	2001.28							
8	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Page No-161 Item no - 21.6 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00		1140.00			
	8th cross	1	186.00	6.00		1116.00			
						2256.00	Sqm	29.68	66958.08
	As per Issue rate	28.00							
	Area Weightage 6%	1.68							
	Grand Total	29.68							
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (Page No-160 Item no - 21.17.6 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00	0.05	57.00			
	8th cross	1	186.00	6.00	0.05	55.80			
						112.80	Cum	6407.70	722788.56
	As per Issue rate	6045.00							
	Area Weightage 6%	362.70							
	Grand Total	6407.70							
10	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No-161 Item no - 21.2 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00		1140.00			
	8th cross	1	186.00	6.00		1116.00			
						2256.00	Sqm	5.30	11956.80
	Basic Rate	5.00							
	Area Weightage 6%	0.30							

No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
	Grand Total	5.30							
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH (Page No-161 Item no - 21.7 of KPWD SR 2018-19).								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00		1140.00			
	8th cross	1	186.00	6.00		1116.00			
						2256.00	Sqm	12.72	28696.32
	As per Issue rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	12.72							
12	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen (P.No.162 & I.No.21.22.6 PWD 18-19)								
	For Asphalt road								
	Ambabhavani Layout								
	7th cross	1	190.00	6.00	0.04	45.60			
	8th cross	1	186.00	6.00	0.04	44.64			
						90.24	Cum	7355.34	663745.88
	Administrative Sanction for Rs. 60.00 Lakhs								
	As per Issue rate	6939.00							
	Area Weightage 6%	416.34							
	Grand Total	7355.34							
	Total Construction Cost								5355832.75
	GST Charges 12%								642699.93
	Sub Total								5998532.68
	Utility Shifting, Miscellaneous and Rounding off								1467.32
	GRAND TOTAL								6000000.00

Certificate

- 1) This Work Comes Within BBMP Limits.
- 2) Certified that personally Inspected the Work Spot.
- 3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated: 01/07/2020
- 4) Estimate is Prepared Making Use of essential item of work as per site conditions in safest way of Execution in most economical way
- 5) This work is not include in any other program of work.

Assistant Engineer
Ward No.03

Asst. Executive Engineer
Yelahanka Satellite town Sub division

Executive Engineer
Yelahanka Division

Under **P-2178**

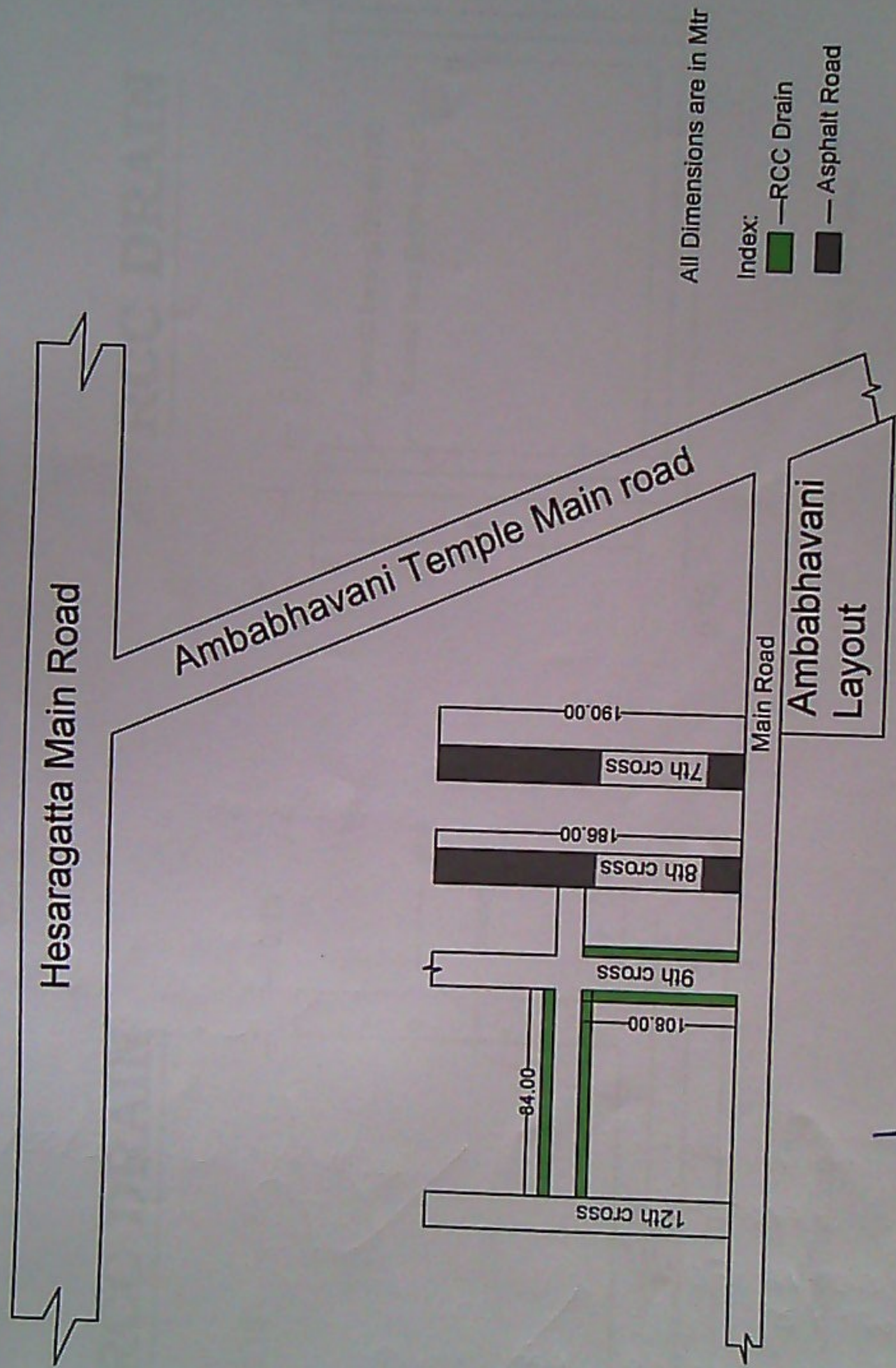
Job Code No. **003-21-00036**

Registered as SE(Y)/TS/ **39/20-21**

Dated: **26/11/2020**

SE(Yelahanka)

Name of work: Improvements to roads and drains at Ambabhavani Layout (Part-1) In Ward No.03

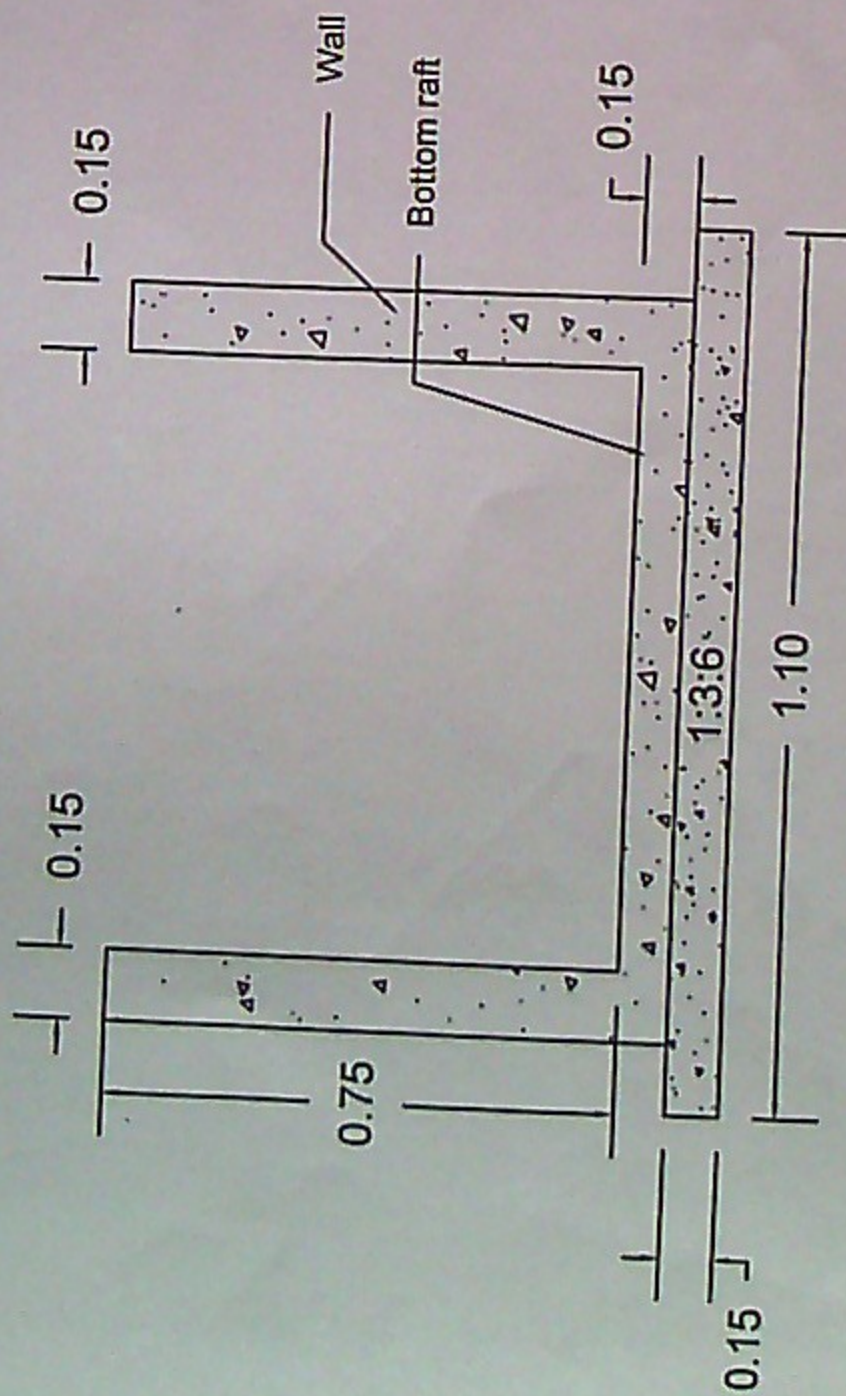


K. S. Srinivas
Assistant Engineer
Ward No.03

S. Srinivas
Assistant Executive Engineer
Yalahanka Satellite Town Sub Division

Name of Work:-Improvements To Roads And Drains At Ambabhavani
Layout (Part-1) In Ward No.03

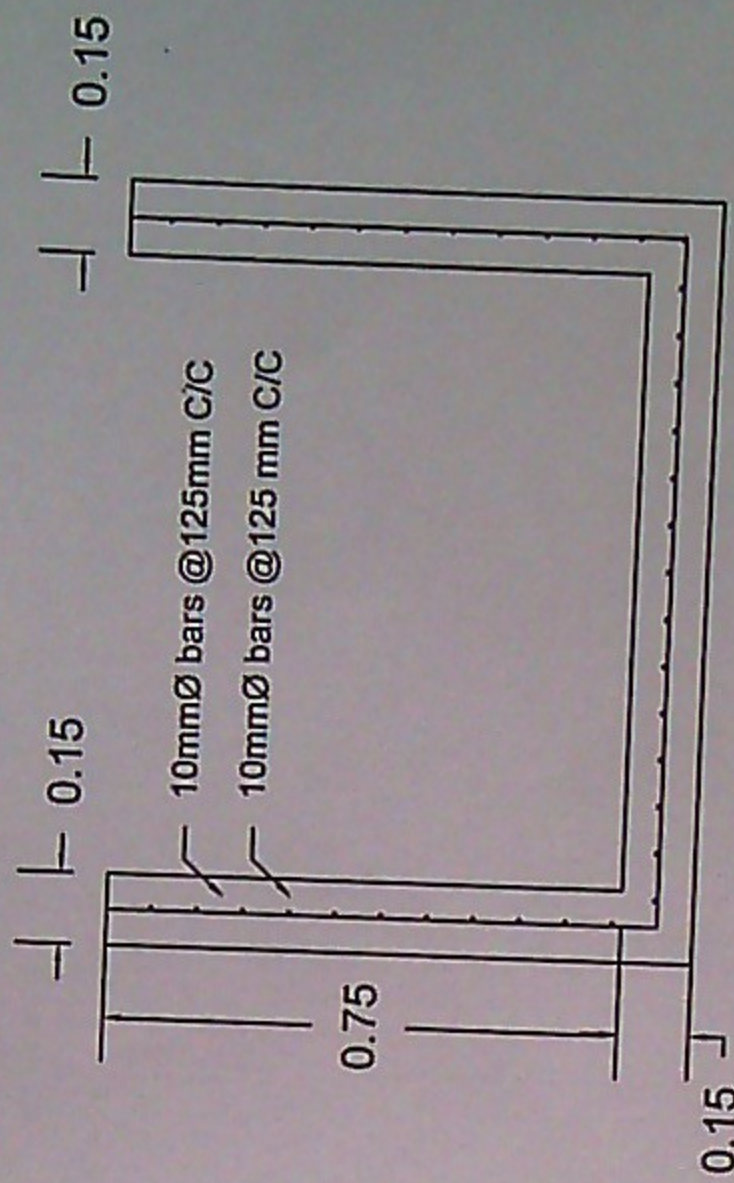
RCC DRAIN



Cross Section

[Signature]
Asst. Engineer
Ward No.03

RCC DRAIN



Cross Section

[Signature]
Asst. Executive Engineer
Yelahanka Sub Division

All Dimensions in Meters